

What is claimed is:

1. A method for changing a first scheduler in a virtual machine monitor,  
comprising:

loading a second scheduler in the virtual machine monitor when the virtual  
5 machine monitor is running; and  
activating the loaded second scheduler to handle a scheduling request for  
a scheduling process in place of the first scheduler when the virtual machine  
monitor is running.

10 2. The method of claim 1, wherein the loading further comprises:  
ceasing device resources owned by a running virtual machine in response  
to receiving a scheduler changing request to change the first scheduler; and  
loading the second scheduler in the virtual machine monitor based upon a  
scheduler parameter of the scheduler changing request.

15 3. The method of claim 1, wherein the loading further comprises:  
unloading the first scheduler from the virtual machine monitor before  
loading the second scheduler.

20 4. The method of claim 1, wherein the activating further comprises:  
replacing a first scheduler identifier with a second scheduler identifier to  
route between the second scheduler and a requester that generated the  
scheduling request, when the virtual machine monitor is running.

5. The method of claim 1, wherein the activating further comprises:

replacing a first function pointer array pointing to a first function array of the first scheduler with a second function pointer array pointing to a second function array of the second scheduler to route between the second scheduler and a requester that generated the request, when the virtual machine monitor is running.

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6. The method of claim 1, wherein the activating further comprises:  
dynamically patching an address associated with the second scheduler into the scheduling request when the virtual machine monitor is running.

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7. The method of claim 1, further comprising:  
unloading the second scheduler from the virtual machine monitor when the virtual machine monitor is running; and  
re-activating the first scheduler to handle a scheduling request after the second scheduler has been unloaded.

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8. A virtual machine monitor for changing a first scheduler, comprising:  
a loading logic to load a second scheduler in the virtual machine monitor when the virtual machine monitor is running; and  
an activating logic to activate the loaded second scheduler to handle a  
20 scheduling request for a scheduling process in place of the first scheduler when the virtual machine monitor is running.

9. The virtual machine monitor of claim 8, wherein the loading logic is further to:

cease device resources owned by a running virtual machine in response to receiving a scheduler changing request to change the first scheduler; and  
load the second scheduler in the virtual machine monitor based upon a scheduler parameter of the scheduler changing request.

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10. The virtual machine monitor of claim 8, wherein the loading logic is further to:

unload the first scheduler from the virtual machine monitor before loading the second scheduler.

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11. The virtual machine monitor of claim 8, wherein the activating logic is further to:

replace a first scheduler identifier with a second scheduler identifier;

route between the second scheduler as identified by the second scheduler identifier and a requester that generated the scheduling request, when the virtual machine monitor is running.

12. The virtual machine monitor of claim 8, wherein the activating logic is further to:

20 replace a first function pointer array pointing to a first function array of the first scheduler with a second function pointer array pointing to a second function array of the second scheduler;

route between the second function array pointed by the second function pointer array and a requester that generated the scheduling request, when the virtual machine monitor is running.

13. The virtual machine monitor of claim 8, wherein the activating logic is further to:

5 dynamically patch an address associated with the second scheduler into a scheduling request when the virtual machine monitor is running.

14. The virtual machine monitor of claim 8, wherein the loading logic is further to unload the second scheduler from the virtual machine monitor when the virtual machine monitor is running; and the activating logic is further to re-activate  
10 the first scheduler to handle a scheduling request after the second scheduler has been unloaded.

15. A system, comprising:  
a requester to generate a scheduling request for a scheduling process;  
15 a virtual machine monitor, comprising:  
a loading logic to load a second scheduler in the virtual machine monitor when the virtual machine monitor is running; and  
an activating logic to activate the loaded second scheduler to handle the scheduling request in place of a first scheduler when the virtual  
20 machine monitor is running.

16. The system of claim 15, wherein the requester further comprises at least one of a timer, a service virtual machine and a guest virtual machine.

17. The system of claim 15, wherein the requester is further to generate a scheduler changing request to changing the first scheduler.

18. The system of claim 15, wherein the loading logic is further to:  
5       cease device resource owned by a running virtual machine in response to receiving a scheduler changing request to change the first scheduler; and  
      load the second scheduler in the virtual machine monitor based upon a scheduler parameter of the scheduler changing request.

19. The system of claim 15, wherein the loading logic is further to:  
10       unload the first scheduler from the virtual machine monitor before the second scheduler is loaded.

20. The system of claim 15, wherein the activating logic is further to:  
15       replace a first scheduler identifier with a second scheduler identifier;  
      route between the second scheduler as identified by the second scheduler identifier and the requester, when the virtual machine monitor is running.

21. The system of claim 15, wherein the activating logic is further to:  
20       replace a first function pointer array pointing to a first function array of the first scheduler with a second function pointer array pointing to a second function array of the second scheduler;  
      route between the second function array pointed by the second function pointer array and the requester, when the virtual machine monitor is running.

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22. The system of claim 15, wherein the activating logic is further to:  
dynamically patch an address associated to the second scheduler to the  
scheduling request when the virtual machine monitor is running.

5           23. The system of claim 15, wherein the loading logic is further to unload  
the second scheduler from the virtual machine monitor when the virtual machine  
monitor is running; and the activating logic is further to re-activate the first  
scheduler to handle the scheduling request after the second scheduler has been  
unloaded.

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24. A machine readable medium comprising a plurality of instructions that  
in response to being executed result in an apparatus:

loading a second scheduler in a virtual machine monitor when the virtual  
machine monitor is running; and

15           activating the loaded second scheduler to handle a scheduling request for  
a scheduling process in place of a first scheduler, when the virtual machine  
monitor is running.

25. The machine readable medium of claim 24, wherein the plurality of  
20 instructions that result in the apparatus loading the second scheduler, further  
result in the apparatus:

ceasing device resources owned by a running virtual machine in response to receiving a scheduler changing request to change the first scheduler; and

loading the second scheduler in the virtual machine monitor based upon a scheduler parameter of the scheduler changing request.

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26. The machine readable medium of claim 24, wherein the plurality of instructions further result in the apparatus:

unloading the first scheduler from the virtual machine monitor before the second scheduler is loaded.

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27. The machine readable medium of claim 24, wherein the plurality of instructions that result in the apparatus activating the second scheduler, further result in the apparatus:

replacing a first scheduler identifier with a second scheduler identifier to route between the second scheduler and a requester that generated the scheduling request, when the virtual machine monitor is running.

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28. The machine readable medium of claim 24, wherein the plurality of instructions that result in the apparatus activating the second scheduler, further result in the apparatus:

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replacing a first function pointer array pointing to a first function array of the first scheduler with a second function pointer array pointing to a second function array of the second scheduler to route between the second scheduler and a requester that generated the scheduling request, when the virtual machine  
5 monitor is running.

29. The machine readable medium of claim 24, wherein the plurality of instructions that result in the apparatus activating the second scheduler, further result in the apparatus:  
10 dynamically patching an address associated with the second scheduler to the scheduling request when the virtual machine monitor is running.

30. The machine readable medium of claim 24 wherein the plurality of instructions further result in the apparatus:  
15 unloading the second scheduler from the virtual machine monitor when the virtual machine monitor is running; and  
re-activating the first scheduler to handle the scheduling request after the second scheduler has been unloaded.

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